United States Patent and Trademark Office

Craig A. Bianchini

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NOTICE OF ALLOWANCE AND FEE(S) DUE

18 Crawford Lane Nashau, NH 03063 07/06/2007

EXAMINER HUG, ERIC J ART UNIT PAPER NUMBER 1731

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

10/718,395

11/20/2003

Craig A. Bianchini

CIN-100US1

DATE MAILED: 07/06/2007

TITLE OF INVENTION: METHOD FOR MITIGATING THE INTERFERENCE CAUSED BY HIGH-MOLECULAR WEIGHT BY-PRODUCTS IN **PULPING PROCESSES**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	10/09/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown
- B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further c indicated unless corrected maintenance fee notificati	d below or directed oth	ng the Patent, advance of herwise in Block 1, by (orders and notification of n (a) specifying a new corres	naintenance fees will pondence address; an	be mailed to the current d/or (b) indicating a sep	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				s) Transmittal. This co	ertificate cannot be used to	or domestic mailings of the for any other accompanying ent or formal drawing, must
		5/2007		Certific	ate of Mailing or Trans	smission
Craig A. Bianch 18 Crawford Land Nashau, NH 0306	e	•	I he Stat addr tran:	reby certify that this Fes Postal Service with essed to the Mail Stamitted to the USPTO	sufficient postage for fir op ISSUE FEE address (571) 273-2885, on the c	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
			·	•		(Depositor's name)
	•		,			(Signature)
			L			(Date)
APPLICATION NO.	FILING DATE	·	FIRST NAMED INVENTOR	ΓA	TORNEY DOCKET NO.	CONFIRMATION NO.
10/718,395	11/20/2003		Craig A. Bianchini		CIN-100US1	9752
FITLE OF INVENTION PULPING PROCESSES	: METHOD FOR MIT	FIGATING THE INTE	RFERENCE CAUSED BY	HIGH-MOLECULA	R WEIGHT BY-PROD	UCTS IN
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- APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FE	E TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$700	\$300	\$0	\$1000	10/09/2007
- EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
HUG, E	RIC J	1731	162-060000			
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON 1			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
	ess an assignee is ident in 37 CFR 3.11. Comp			atent. If an assignee in assignment.		locument has been filed for
Please check the appropria	ate assignee category or	categories (will not be p	printed on the patent):	Individual Corpo	ration or other private gre	oup entity Government
4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) I Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies						
5. Change in Entity Statu	us (from status indicated	d above)	overpujiment, to 2 epo		(cherose a	is extra copy of this form).
a. Applicant claims			b. Applicant is no long	ger claiming SMALL I	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee and nterest as shown by the re	Publication Fee (if requestords of the United Sta	uired) will not be accepte tes Patent and Trademar	ed from anyone other than the Office.	ne applicant; a register	ed attorney or agent; or the	ne assignee or other party in
Authorized Signature _	***************************************		· .	Date		· ·
Typed or printed name			May 2			
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) in application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and ubmitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete his form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O.						

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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75	90	07/06/2007		EXAM	IINER ·	
Craig A. Bianchini		·	•	HUG, ERIC J		
18 Crawford Lane			·	ART UNIT	PAPER NUMBER	
Nashau, NH 03063				1731		
			•	DATE MAILED: 07/06/200	7	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

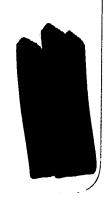
Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/718,395	BIANCHINI, CRAIG A.				
Notice of Allowability	Examiner	Art Unit				
	Eric Hug	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment filed March 26, 2007.						
2. The allowed claim(s) is/are 18 and 21-27.						
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) ☐ hereto or 2) ☐ to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s)	_					
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	te .				
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendment/Comment					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance				



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Art Unit: 1731

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. The application has been amended as follows:

After the Title--

This application is a divisional of U.S. Application No. 09/917,337 filed July 27, 2001, now U.S. Patent No. 6,752,903 which has been allowed.

Allowable Subject Matter

Claims 18 and 21-27 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 18 and 24 are allowed, because the prior art does not disclose or suggest a method for improving a wood pulping process having displacement batch digestion, wherein a pulp washing fluid is passed through filtration media to remove high molecular weight organics from the fluid, and then the treated fluid is used to displace hot black liquor.

Claims 21 and 25 are allowed, because the prior art does not disclose or suggest a method for improving a wood pulping process having pulp dilution, wherein a pulp washing fluid is passed through filtration media to remove high molecular weight organics from the fluid, and then the treated fluid is used to dilute pulp.

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Claims 22 and 26 are allowed, because the prior art does not disclose or suggest a method for improving a wood pulping process having multi-stage fiber washing, wherein a pulp washing fluid is passed through filtration media to remove high molecular weight organics from the fluid, and then the treated fluid is used to wash fiber in a stage preceding the stage from which the washing fluid was withdrawn.

Claims 23 and 27 are allowed, because the prior art does not disclose or suggest a method for improving a wood pulping process that includes successive steps of washing/oxygen delignification/washing, wherein a pulp washing fluid is passed through filtration media to remove high molecular weight organics from the fluid, and then the treated fluid is used for washing or pulp dilution in connection with the oxygen delignification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Response to Arguments

Applicant's arguments filed March 26, 2007 have been fully considered and are persuasive. The rejection of claims 18 and 21-27 under 35 U.S.C. 103(a) over Fremont (US 4,226,673 and US 3,758,405) has been withdrawn. It is recognized that Fremont teaches ultrafiltration for removal of color bodies from Kraft mill effluent streams for the purpose of reducing the amount of discharged contaminants. Fremont does not suggest treating and reusing a washing fluid to improve the efficiency of particular wood pulping processes through increased concentration gradients for mass transfer, nor does Fremont suggest utilizing the reusable permeate disclosed therein in any manner as claimed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Hug whose telephone number is 571 272-1192.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric Hug

En 14

Primary Examiner